

UTILITY **PATENT APPLICATION** TRANSMITTAL

Attorney Docket No.: 19232.0011U1 First Inventor: Andreas Mühe Title: CRYSTAL-GROWING FURNACE, IN PARTICULAR A

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| H | [2] <u> </u> |

| (Only for new nonprovisional applicati | VERTICAL BRIDGMAN CRYSTAL-GROWING FURNACE OR A VERTICAL GRADIENT FREEZE CRYSTAL-GROWING FURNACE HAVING A JACKET HEATER AND A METHOD OF REGULATING THE HEAT OUTPUT OF THE JACKET HEATER | | | | | | | |
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| ll l | | | Express Mail Label No.: EL992075877US | | | | | |
| APPLICATION ELEMENTS | | | Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 | | | | | |
| Specification (Includes descript) | [Total Pages 13 ion, claims, and abstrac | | 6. CD-ROM or CD-R in duplicate, large tables or Computer Program (Appendix) | | | | | |
| | | | | | AC | COMPANYING | APPL | ICATION PARTS: |
| 2. 🛭 Drawings | [Total Sheets 1 |] | 7. | | • | y of Assignmen | | |
| 3. ⊠ Oath or Declarat | ion [Total Pages 3] | | 8. | | | ` ' | temen | t (when there is an assignee) |
| _ | | | 9. Power of Attorney | | | | | |
| a. Newly executed | | 1 63(4)) | 10. | | _ | | | ment (if applicable) |
| b. Copy from a prior application (37 CFR 1 (for continuation/divisional with Box 20B completed) | | | 11. | ⊠ | | rmation Disclos age) | ure Sta | atement (2 pages)/PTO-1449 |
| 4. Application Data | 76 | | \boxtimes | Cop | ies of IDS Citat | ions | [Total Citations 4] | |
| 4. Application batte | Total Pages | | 12. | \boxtimes | Prel | liminary Amendi | ment (| 7 pages) |
| 5. Nucleotide and/or Amino Acid Sequence | | | 13. | ☒ | Cer prio | tified Copy of Pi rity is claimed) (| riority I (18 pag | Document(s) (if foreign ges) |
| Submission (if app a. ☐ Computer Reada | blicable, all necessary) ble Form (CRF) | | 14. | | | | | under 35 USC 122(b)(2)(B)(i) B/35 or equivalent). |
| OR Statement under 37 CFR 1.821(e) (see Box 21 for statement) | | | 15. | \boxtimes | Auti | horization to Tre e as Incorporati | eat Rep | ply Requiring Extension of tition for Extension of Time (2 |
| b. Specification Seq | | | 16. | × | | • | stcard | (MPEP 503) (1 card) |
| | CD-R (2 copies); or | | 17. | ⋈ | | • | | slation (1 page); Form PTO- |
| ii. ☐ paper [Total Pages] c. ☐ The contents of the computer readable form of the sequence listing and the sequence listing in the specification of the application are the same. | | | | | 203 | 8 Credit Card A 0.00 (1 page) | uthoriz | zation in the amount of |
| 18. The FILING FEE is cal | culated as follows: (Cla | aims as file | ed, less | any | clai | ms cancelled by | / Amer | ndment) |
| Claims | Number Filed | 1 | nber E | | | Rate | | .00 (Basic Fee) |
| Total claims | [9]-20= | ļ | 0 | | | X \$18.00 | | 0.00 |
| Independent claims [3]-3= | | | | X \$84.00 | · · · · · | 0.00 | | |
| MULTIPLE DEPENDENT CLAIM(S | | | | | | | 1.00 | |
| TOTAL OF ABOVE CALCUL Applicant claims small entity status. See 37 CFR 1.27. Fe | | | | | | | \$ | 7.00 |
| TOTAL FILING FEE = | | | | \$750.00 | | | | |
| 19. Payment: | | | | | | | | |
| | The Commissioner is hereby authorized to charge any additional amount due or credit any overpayment to | | | | | | | |

| 20A. | Ø | This application is an original application (not a continuation, divisional or continuation-in-part). | | | | |
|--|--|--|--|--|--|--|
| 20B. | | This application is a ☐ continuation-in-part / ☐ continuation / ☐ divisional of prior Application No | | | | |
| | | The prior application was assigned to Examiner, Group Art Unit | | | | |
| | | The entire disclosure of the prior application is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference. | | | | |
| | | This application is a continuation or divisional application (not a continuation-in-part) that: | | | | |
| | | (i) names as inventors the same or fewer than all the inventors named in the prior application; and | | | | |
| | | (ii) contains no matter that would have been new matter in the prior application; and | | | | |
| : | | (iii) a copy of the executed oath or declaration in the prior application, showing the signature or an indication thereon that it was signed: | | | | |
| | | is enclosed. | | | | |
| | | will follow. | | | | |
| | | This application is a continuation or divisional application (not a continuation-in-part) that is being filed by less than all the inventors named in the prior application. In accordance with 37 C.F.R. §1.63(d)(2), the Commissioner is requested to delete the name(s) of the following person who are not inventors of the invention being claimed in this application: | | | | |
| | | This application is a continuation-in-part, continuation or divisional application naming an inventor not named in the prior application. A newly executed oath or declaration: is enclosed. will follow. | | | | |
| 21. | 21. A sequence listing in computer readable form in compliance with 37 C.F.R. §§ 1.821-1.825 was subj | | | | | |
| | | on in prior Application No, filed | | | | |
| | Pursuant to 37 C.F.R. § 1.821(e), applicant hereby requests that the computer readable form of the sequence listing submitted in the above-referenced prior application be used as the computer readable of the sequence listing for the new application. The paper or compact disk copy of the Sequence Listin the new application is identical to the computer readable copy filed in the prior application. | | | | | |
| 22. | × | This application claims foreign priority benefits under 35 USC 119(a)-(d) or 365(b) of any foreign application(s) listed below, or under 35 USC 365(a) or 365(b) of any PCT application listed below. Application No. 10239104.1 Country: Germany Day/Month/Year Filed: August 27, 2002 | | | | |
| 23. Address all correspondence to the address associated with: CUSTOMER NO. 23859 | | | | | | |
| Name o | of Attorney | y/Agent: Gregory J. Kirsch Registration No.: 35,572 | | | | |
| | | 100 | | | | |
| Signati | ure: | 1949 Date: 27 AVGUST 2003 | | | | |
| | | Certificate of Express Mailing Under 37 C.F.R. § 1.10 | | | | |
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| 4 | apple of | 8/27/03 | | | | |
| Micha | el Laird | Date | | | | |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re | Application of | |
|--------|---|--|
| | Andreas Mühe | |
| Serial | No.: Unassigned | Group Art Unit: Unassigned |
| Filed: | Concurrently | Examiner: Unassigned |
| For: | CRYSTAL-GROWING FURNACE, IN PARTICULAR A VERTICAL BRIDGMAN CRYSTAL-GROWING FURNACE OR A VERTICAL GRADIENT FREEZE CRYSTAL-GROWING FURNACE HAVING A JACKET HEATER AND A METHOD OF REGULATING THE HEAT OUTPUT OF THE JACKET HEATER | Confirmation No.: Unassigned Output Output |

AUTHORIZATION TO TREAT REPLY REQUIRING EXTENSION OF TIME AS INCORPORATING PETITION FOR EXTENSION OF TIME

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 NEEDLE & ROSENBERG, P.C. Customer No.: 23859

Sir:

Pursuant to 37 C.F.R. §1.136(a)(3), the Commissioner is hereby requested and authorized to treat any concurrent or future reply in the above-identified application, requiring a petition for an extension of time for its timely submission, as incorporating a petition for extension of time for the appropriate length of time.

N&R - 183950

ATTORNEY DOCKET NO. 19232.0011U1

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

NEEDLE & ROSENBERG, P.C.

Gregory J. Kirsch

Registration No. 35,572

NEEDLE & ROSENBERG, P.C. Customer No. 23859 (404) 688-0770

| CERTIFICATE | OF EXPRESS MAILING UNDER 37 CF.R. § 1 | .10 |
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Model And

8/27/0

Michael Laird

Date

City of New York, State of New York, County of New York

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WASHINGTON, DC

I, Holly Schneider, hereby certify that the following is, to the best of my knowledge and belief, a true and accurate translation of the German patent application from German into English.

Holly Schneider

Sworn to before me this

Tuesday, July 29, 2003

Signature, Notary Public

PAUL D. RALSTON Notary Public, State of New York No. 01 RA6023B67 Qualified in Queens County Commission Expires May 3,

Stamp, Notary Public

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| Michael Laird | 8/27/03 Date | |